Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al.
Serial No.: 10/620,183

Filed: July 15, 200 Filed: July 15, 2003
REPLACEMENT SHEET Docket: 110.02090101 Express Mail No.: EV073687302 US Sheet 1 of 14 1/14 JAN 2 3 2004 TRABE! Fig. 1B ω ~ 9 ω 9 ဖ Fíg. 1A 30

Fíg. 2B

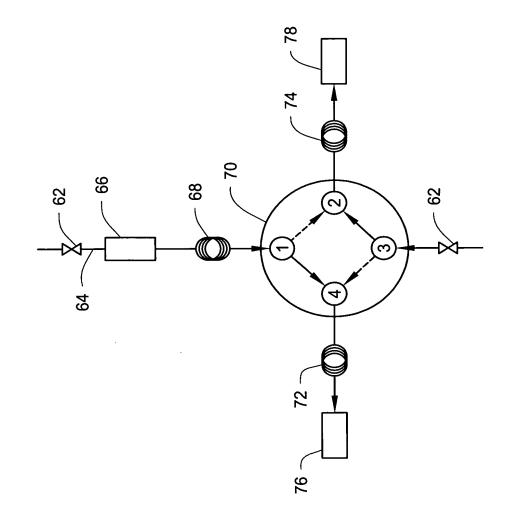
Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al. Serial No.: 10/620,183 Filed: July 15, 20

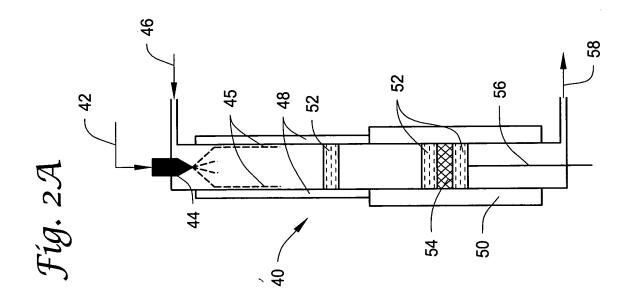
Filed: July 15, 2003
REPLACEMENT SHEET Express Mail No.: EV073687302 US

Docket: 110.02090101

Sheet 2 of 14

2/14







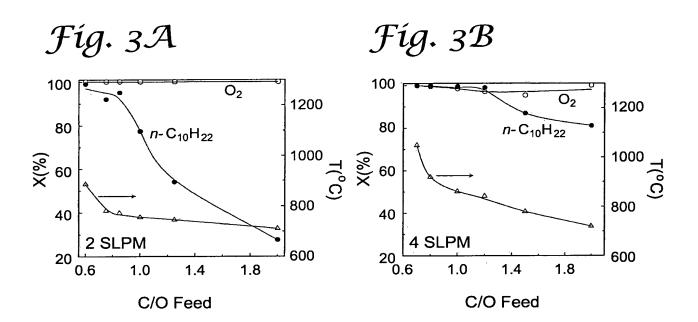
Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS

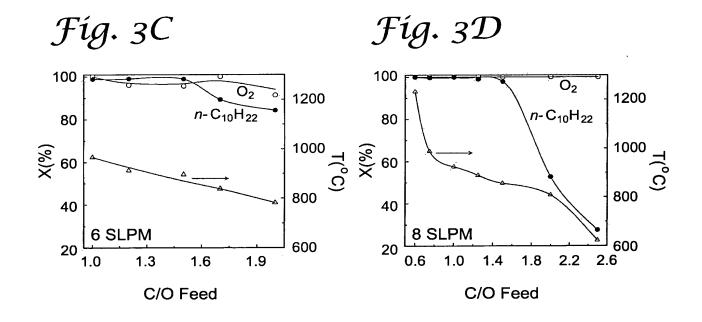
Applicant(s): SCHMIDT et al. Serial No.: 10/620,183

Express Mail No.: EV073687302 US REPLAC

Filed: July 15, 2003
REPLACEMENT SHEET

Docket: 110.02090101 Sheet 3 of 14





Express Mail No.: EV073687302 US

Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS
Applicant(s): SCHMIDT et al.
Serial No.: 10/620,183

Filed: July 15, 20

Filed: July 15, 2003

REPLACEMENT SHEET

Docket: 110.02090101 Sheet 4 of 14

Fig. 4A

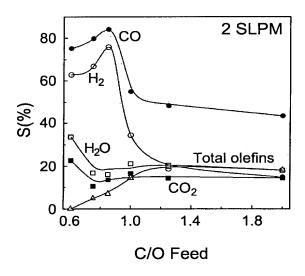


Fig. 4B

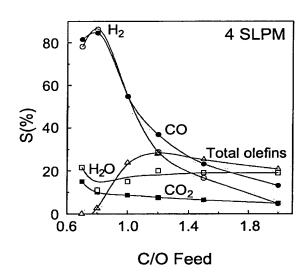


Fig. 4C

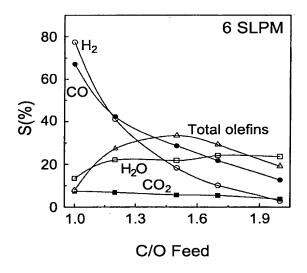
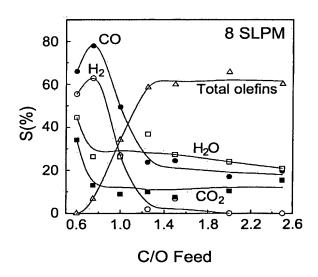


Fig. 4D



Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al.

Serial No.: 10/620,183

Filed: July 15, 20

Filed: July 15, 2003

REPLACEMENT SHEET Express Mail No.: EV073687302 US

Docket: 110.02090101 Sheet 5 of 14



Fig. 5A

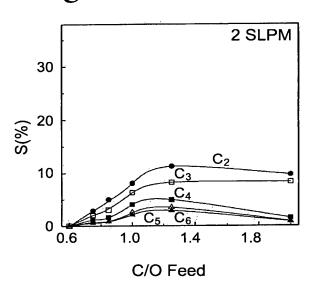


Fig. 5B

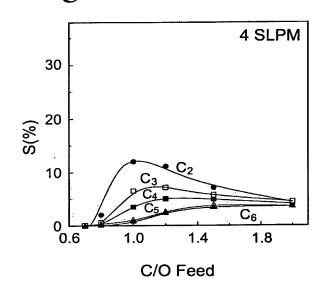


Fig. 5C

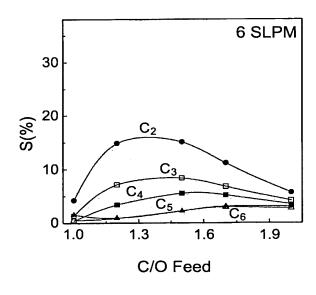
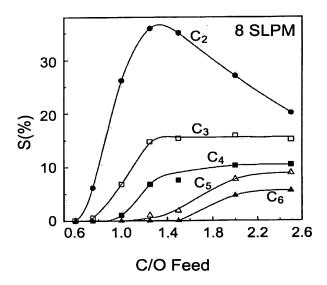


Fig. 5D



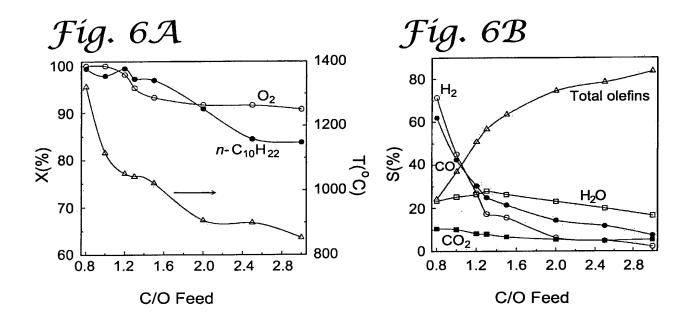
Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al.
Serial No.: 10/620,183

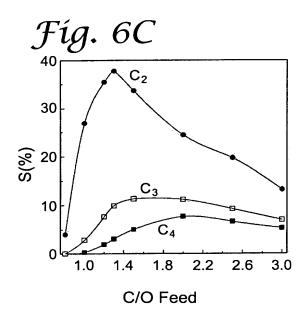
Filed: July 15, 20

Filed: July 15, 2003

REPLACEMENT SHEET Express Mail No.: EV073687302 US

Docket: 110.02090101 Sheet 6 of 14







Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS
Applicant(s): SCHMIDT et al.
Serial No.: 10/620,183

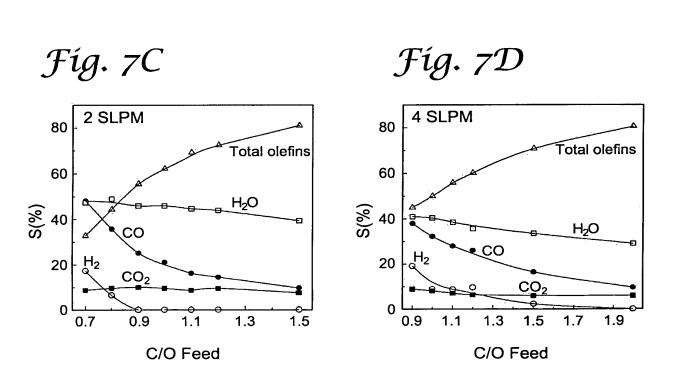
Filed: July 15, 20

Filed: July 15, 2003

REPLACEMENT SHEET Express Mail No.: EV073687302 US

Docket: 110.02090101 Sheet 7 of 14

Fig. 7B Fíg. 7A 100 100 n-C₁₀H₂₂ 1000 n-C₁₀H₂₂ 1000 90 90 02 900 900 %) 80 %) 80 800 800 70 70 700 700 2 SLPM 4 SLPM 600 60 600 60 1.5 1.7 1.9 0.7 0.9 1.1 1.3 1.5 0.9 1.1 1.3 C/O Feed C/O Feed



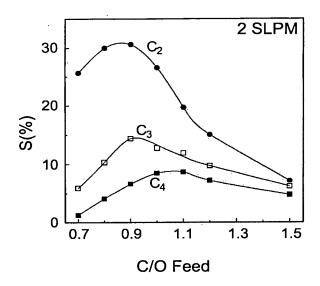


Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al. Serial No.: 10/620,183 Filed: July 15, 200

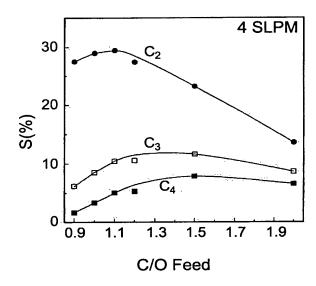
Express Mail No.: EV073687302 US

Filed: July 15, 2003 REPLACEMENT SHEET Docket: 110.02090101 Sheet 8 of 14

Fig. 8A



Fíg. 8B



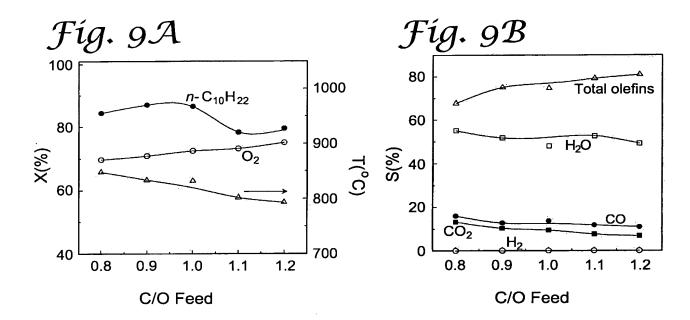


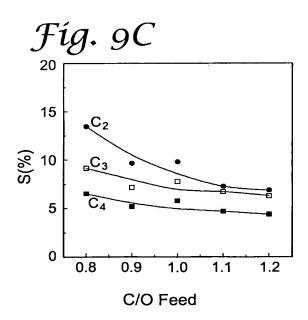
Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al. Serial No.: 10/620,183 Filed: July 15, 20

Filed: July 15, 2003

REPLACEMENT SHEET Express Mail No.: EV073687302 US

Docket: 110.02090101 Sheet 9 of 14





Express Mail No.: EV073687302 US

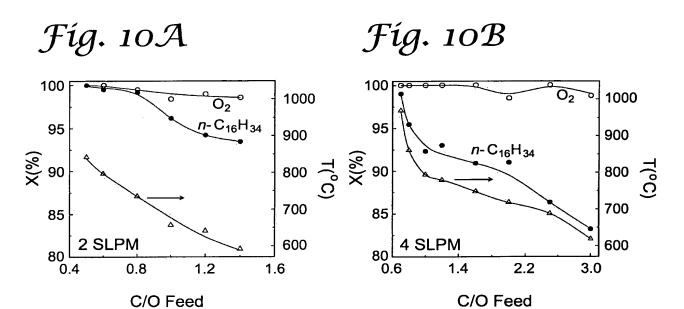
Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS
Applicant(s): SCHMIDT et al.
Serial No.: 10/620,183

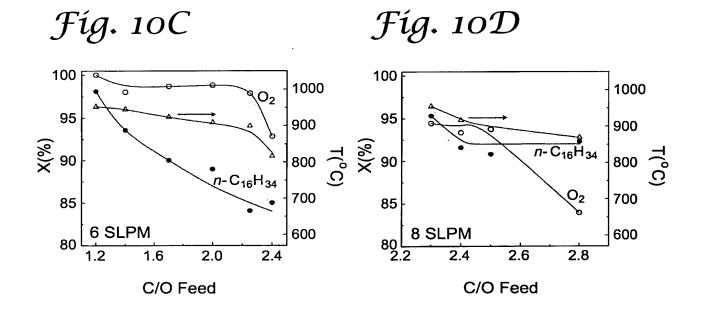
Filed: July 15, 20

Filed: July 15, 2003

REPLACEMENT SHEET

Docket: 110.02090101 Sheet 10 of 14





Applicant(s): SCHMIDT et al. Serial No.: 10/620,183

Filed: July 15, 2003

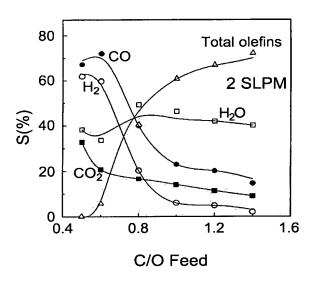
Express Mail No.: EV073687302 US

REPLACEMENT SHEET

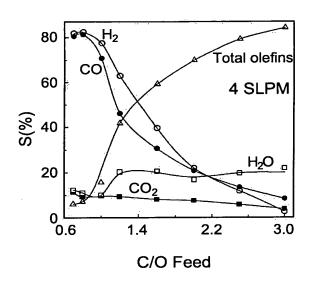
Docket: 110.02090101 Sheet 11 of 14

11/14

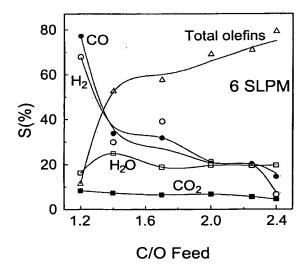
Fíg. 11A



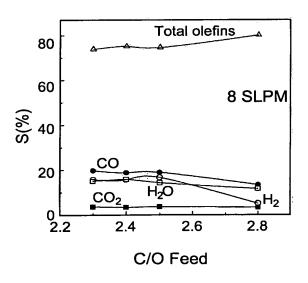
Fíg. 11B



Fíg. 11C



Fíg. 11D



Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al.
Serial No.: 10/620,183 Filed: July 15, 20

Serial No.: 10/620,183

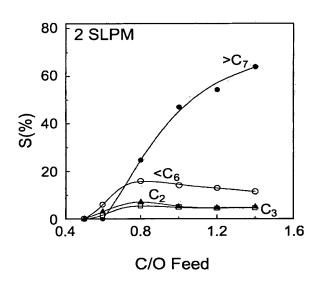
Express Mail No.: EV073687302 US

Filed: July 15, 2003
REPLACEMENT SHEET

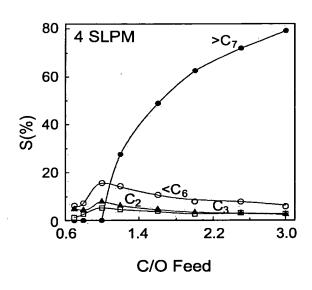
Docket: 110.02090101 Sheet 12 of 14

12/14

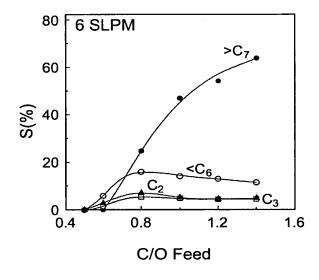
Fíg. 12A



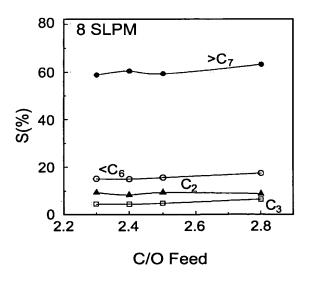
Fíg. 12B



Fíg. 12C



Fíg. 12D





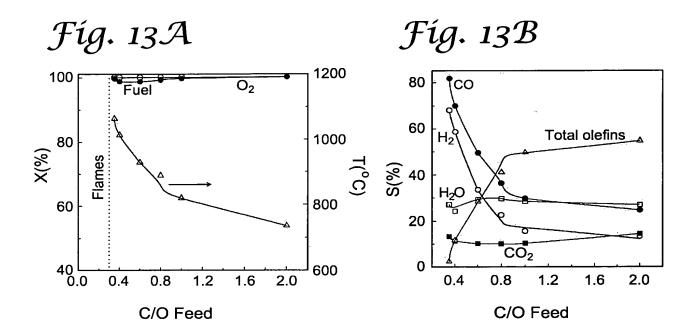
Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al.
Serial No.: 10/620,183

Filed: July 15, 20

Filed: July 15, 2003

REPLACEMENT SHEET Express Mail No.: EV073687302 US

Docket: 110.02090101 Sheet 13 of 14





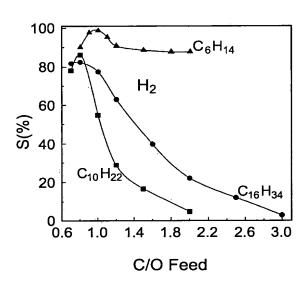
Title: CATALYTIC PARTIAL OXIDATION OF HYDROCARBONS Applicant(s): SCHMIDT et al.
Serial No.: 10/620,183 Filed: July 15, 20

Express Mail No.: EV073687302 US

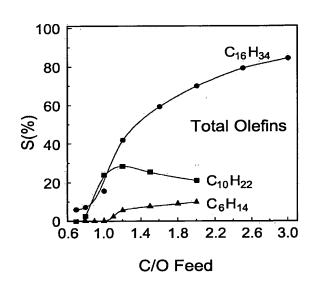
Filed: July 15, 2003
REPLACEMENT SHEET

Docket: 110.02090101 Sheet 14 of 14

Fíg. 14A



Fíg. 14B



Fíg. 14C

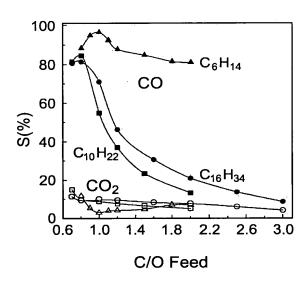


Fig. 14 $\mathcal D$

